

# PhysPAG

## F2F2 Meeting Goals and Agenda 1 May 2011

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See

<http://pcos.gsfc.nasa.gov/physpag.php>

Includes email sign-up for news and  
announcements

The screenshot shows the PhysPAG website homepage. At the top is the NASA logo and the text "National Aeronautics and Space Administration" and "Goddard Space Flight Center". Below this is a navigation bar with links for OVERVIEW, PROJECTS, SCIENCE, TECHNOLOGY, and PROGRAM OFFICE. The main heading is "Physics of the Cosmos" with "PhysPAG" underneath. The page is divided into several sections: "Links" (Documents, PhysPAG, ExEP Office, Multimedia Library, Contact Us), "Objective" (a paragraph describing the group's purpose), "PhysPAG Announcements" (a sign-up link), "Executive Committee" (listing members like Steve Ritz, Jason Rhodes, Shaul Hanany, Roger Brissenden, Liz Hays, Rita Sambruna, and Jean Cottam), "Upcoming Meetings" (TBD), "Past Meetings" (First Meeting of the PhysPAG on 13 Jan 2011), "Contact" (Rita Sambruna and Jean Cottam), "Program News" (14 Jan 2011, 21 Oct 2010, 13 Aug 2010), "Project News" (Chandra News, Fermi News, Planck News, XMM-Newton News), and "Related Missions News" (RXTE News, Suzaku News, Swift News).

# Executive Committee Members

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- Roger Brissenden (CfA)
- Shaul Hanany (Minnesota)
- Liz Hays (GSFC)
- Guido Mueller (UFL)
- Jason Rhodes (JPL)
- Steve Ritz (UCSC), chair

# Acronyms

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- APS = Astrophysics Subcommittee of the NASA Advisory Committee (NAC) Science Committee
- APS = American Physical Society

# Summary of January Discussions

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- **Define first working groups (SAGs). After discussion, recommend for approval by APS (convener in ( )):**
  - 1. NRC Technology Study inputs (Brissenden), leading to...
    - 1a. Technology Development planning for Explorer science and beyond.
  - 2. Inflation Probe (Hanany)
  - 3. Community Interactions/Interfaces/how people join (Ritz/Rhodes)
- Ask NASA to provide one POC for each
- **Additional activities suggested:**
  - Have a look at NRA language
    - Previous language now, ask to see draft language in late summer/early fall
    - Report our analysis to the APS, which can make recommendations
  - Hear technology development plans for PCOS missions and NASA R&T program plans.
    - See [http://www.nasa.gov/pdf/501624main\\_TA08-SIOSS-DRAFT-Nov2010-A.pdf](http://www.nasa.gov/pdf/501624main_TA08-SIOSS-DRAFT-Nov2010-A.pdf) and <http://www.nasa.gov/offices/oct/home/roadmaps/>

# PhysPAG Activities Since February

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- Inflation Probe SAG (IPSAG) [Shaul Hanany coordinator]
  - Email sent out to community on March 10. First Telecon 21 April.
- Technology SAG [Roger Brissenden coordinator]
  - Several telecons, many emails, much work to prepare inputs to NRC study. Approximately a dozen participants.
- Updates/improvements to the website (thanks, PCOS office!)
- Approval of tasks by APS.

# An Overall Goal

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- PCOS is a program, not a (single) community
- Big changes, recent international developments => need to **engage communities involved in PCOS science**
- This meeting:
  - Status and next steps for our existing tasks
  - Additional opportunities for PhysPAG to facilitate community involvement, additional tasks planning
    - Note: NASA is planning a PCOS Newsletter – our inputs requested

# Agenda

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- Intros, goals for the meeting, summary of APS meeting discussions - Steve (15)
- News from HQ - Rita (10+10)
- PCOS office activities - Jean (5)
- PCOS Program Office Technology Studies - Jackie Townsend (10+10)
- TechSAG – Roger, discussion (10+15)
- Gamma-ray science in the coming decade discussion - Liz, all (10+10)
  
- **10:45 BREAK (15)**
  
- CMB Science in the coming decade and IPSAG report – Shaul, all (10+10)
- Gravitational wave science in the coming decade discussion - Guido, all(10+20)
- X-ray science in the coming decade discussion – Pat Slane, all (10+20)
  
- COMMUNITY INPUTS AND COMMENTS, additional topics (20)
- Possible additional SAGs and community interactions brainstorming - all (20)
- AOB (5)
- Action items summary, next meeting (10)
- **13:15 ADJOURN**

# Other Questions/Issues For Additional Discussion

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- International Discussions
  - What and when?
  - International participation in SAGs
  - Support for US people participating in international processes (e.g., Cosmic Visions) that do not yet have NASA participation to facilitate later integration? **APS issue.**
- How best to position PCOS missions for DSIAC and next Decadal
  - including scope and cost
- LISA, IXO Tech Development
  - These programs have their own SWGs, but **useful for PhysPAG to hear details**
  - **Understand support levels and timescales**
  - **Hear what might be missing**
- Dark Energy
  - **WFIRST flow of information to/from PhysPAG. Fall between cracks? APS issue.**
  - Other missions (EUCLID, ...)
- Tests of GR beyond gravitational waves
- Other Technology Development (e.g., SAT)
  - **See Astro2010 inputs.**
  - **Identify scales: from small-group activities through pathfinder missions**
  - **Additional areas to consider, e.g., all-sky survey/wide FOV, data handling, space qualified optical clocks for fundamental physics tests, formation flying,...**